WATER SUPPLY OUTLOOK





DEFINITIONS:

Acre-Feet: The volume equal to one acre covered one foot deep (43,560 cubic feet).

Forecast Period: Generally, April 1st through July 31st, unless otherwise noted.

April-High Forecast Period: For the Lake Tahoe Stage Rise, the period from April 1st to the highest recorded lake stage level.

April 1st Average: The April 1st snowpack average is used as a reference point because it is normally the end of the winter snowfall season and the beginning of the spring runoff season.

Residual Period: The forecast period from the first of the current month through September 30th.

Probability Forecasts: Precipitation and snowfall accumulation of known probability as determined by analysis of past records are utilized in the preparation of probability runoff forecasts. The forecasts include an evaluation of the standard error of the prediction model. The forecasts are presented at three levels of probability as follows:

- **Most Probable Volume:** Given the current hydrometeorological conditions to date, this is the best estimate of what the actual runoff volume will be this season.
- Most Probable Volume (% Normal): Most probable volume in percent of the 1961-1990 average.
- **Reasonable Maximum Volume:** Given current hydrometeorological conditions, the seasonal runoff that has a 10 percent chance of being exceeded.
- **Reasonable Minimum Volume:** Given current hydrometeorological conditions, the seasonal runoff that has a 90 percent chance of being exceeded.

SNOTEL: Acronym for SNOw TELemetry. This is a automated snow measurement system operated by the USDA - Natural Resources Conservation Service. These sites use meteor burst communications technology to transmit hydrometeorological information such as snow water equivalent from snow pillows, accumulated precipitation and maximum, minimum and average air temperature.

Water equivalent: The depth of water that would result from melting the snowpack at a point.

Water Year: The period from October 1st through September 30th.

General Outlook

February 1, 2002

A dry weather regime returned to California after a productive December. Precipitation was well below average throughout the state in January, ranging from 80 percent of average in the Klamath Basin to about 43 percent for the basins along the Sierra Nevada east slope. The seasonal average remains slightly above average for most basins in California and Nevada. However, the southeast desert in California as well as extreme southern Nevada remain much below average.

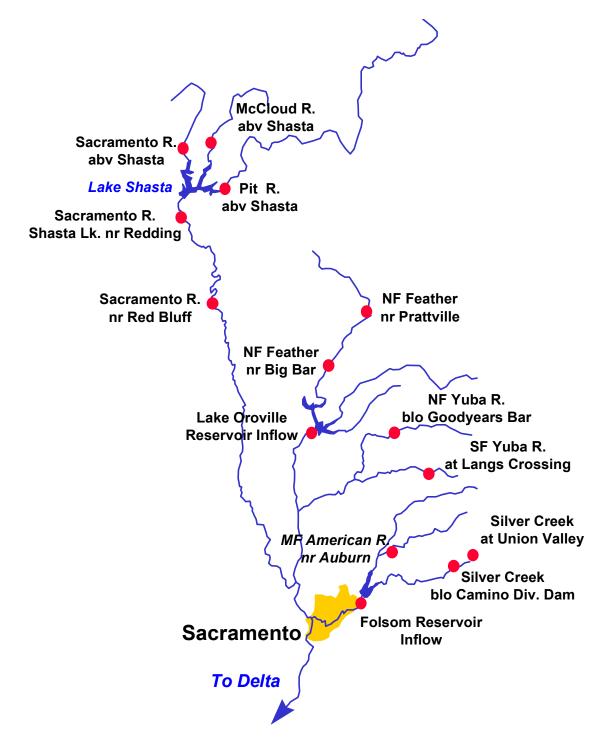
The water content of the snowpack for the Sierra Nevada is about 108 percent of the average for this date and 65 percent of the April 1st average. The Tahoe-Truckee basin snowpack is about 115 percent of the monthly average, while the Carson-Walker and the Humboldt basins stand at about 105 percent.

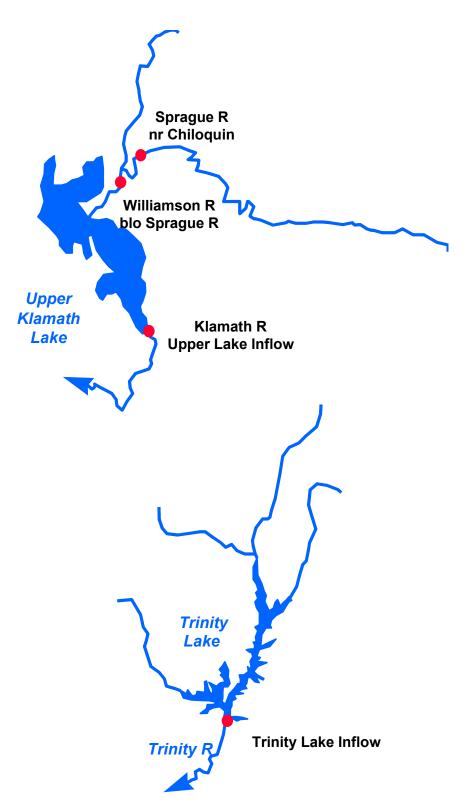
Runoff during January was 90 percent of average for California. This brings the seasonal average to 98 percent. It was only 30 percent at this time last year.

Storage in California's reservoirs are averaging 95 percent, representing 60 percent of capacity.

Runoff forecasts have been revised downward this month due to the dry January and the relatively dry weather conditions anticipated during the first half of February. The April through July runoff forecasts range from 108 percent of average in the Trinity basin to about 80 percent in the Kern River basin. Forecasts range from 85 to 94 percent of average for the east side Sierra Nevada basins and between 82 and 102 percent in the Humboldt basin.

Please note: The Water Supply Outlook is available on the World Wide Web at http://www.wrh.noaa.gov/cnrfc.





Upper Klamath and Trinity River Basins

		Most Prob Vol KAF	Most Prob Vol %Nrml	Reas Max Vol KAF	Reas Min Vol KAF	30 Year Avg KAF
COASTAL BASINS						
Williamson River Sprague, blo	Mar-Sep	495	98	645	345	505
Sprague River Chiloquin, nr	Mar-Sep	290	95	415	165	305
Upper Klamath Falls River Inflow	Mar-Sep	700	98	905	495	715
Trinity River Clair Engle Inflow	Apr-Jul	685	108	990	380	635
SACRAMENTO RIVER BASIN						
SACRAMENTO RIVER ABOVE BEND BRI	DGE					
Pit River Montgomery Creek, nr	Apr-Jul	1050	98	1340	755	1070
Mccloud River Shasta Lake, abv	Apr-Jul	380	103	515	245	370
Sacramento River Delta Shasta Lake, Redding, nr Bend Bridge, abv, Red Bluff	Apr-Jul Apr-Jul Apr-Jul	280 1750 2400	97 98 98	450 2460 3450	111 1050 1350	290 1790 2440
FEATHER RIVER ABOVE OROVILLE RE	SERVOIR					
NF Feather River Prattville, nr Big Bar	Apr-Jul Apr-Jul	330 910	99 95	500 1400	162 420	333* 962*
Feather River Oroville Reservoir Inflow	Apr-Jul	1700	97	2580	820	1760

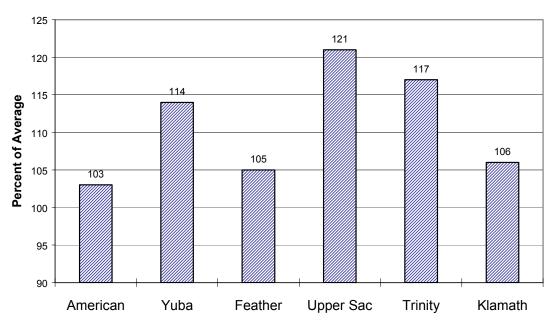
		Most Prob Vol KAF	Most Prob Vol %Nrml	Reas Max Vol KAF	Reas Min Vol KAF	30 Year Avg KAF
Yuba River above Smartville						
North Yuba River Goodyears Bar, blo	Apr-Jul	275	101	400	152	273*
South Yuba River Langs Crossing	Apr-Jul	230	102	330	128	225*
Yuba River Smartville, nr	Apr-Jul	1000	101	1450	545	995
American River above Folsom	Reservoir					
MF American River						
Auburn, nr	Apr-Jul	475	97	730	220	490*
Silver Ck						
Union Valley	Apr-Jul	94	96	134	54	98*
Camino Dam, blo	Apr-Jul	150	95	235	64	158*
American River						
Folsom Reservoir Inflow	Apr-Jul	1190	97	1810	570	1230

^{*30} Year Averages for 1971-2000 are incomplete. Those forecast points with an asterisk have incomplete averages, so 1961-1990 averages are listed. The new averages will be incorporated into this report when the complete data sets become available.

Sacramento/Trinity/Klamath River Basins

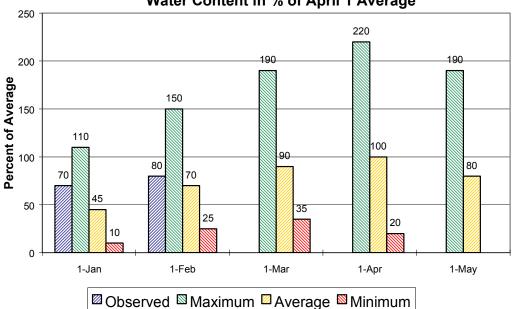
Seasonal Basin Precipitation

October 1 to Date



Seasonal Basin Snowpack

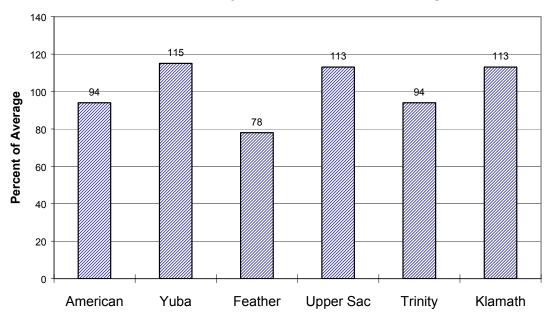
Water Content in % of April 1 Average



Sacramento/Trinity/Klamath River Basins

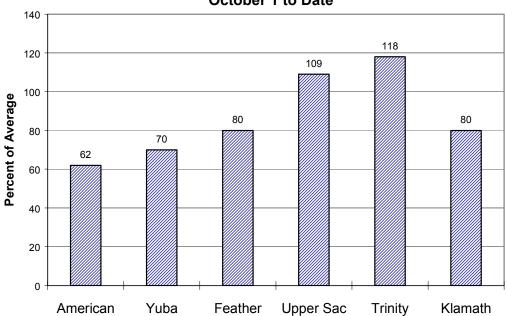
Basin Reservoir Storage

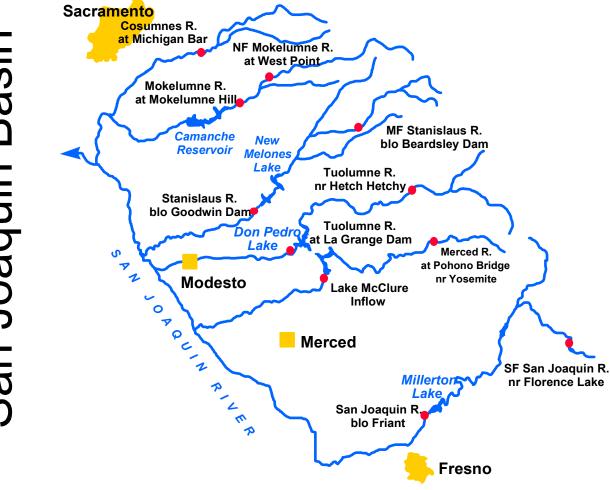
Contents of Major Reservoirs in % of Average



Seasonal Basin Runoff

October 1 to Date





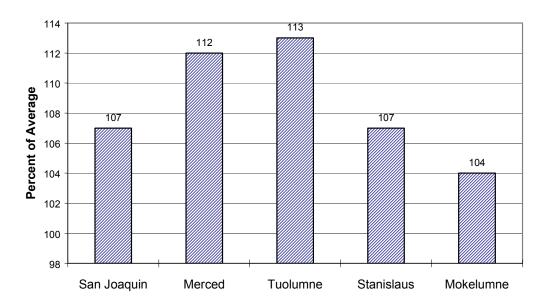
		Most Prob Vol KAF	Most Prob Vol %Nrml	Reas Max Vol KAF	Reas Min Vol KAF	30 Year Avg KAF
SF San Joaquin River Hooper Ck, blo, Florence Lake	Apr-Jul	170	89	250	88	192*
San Joaquin River Millerton Lk	Apr-Jul	1200	94	1720	680	1270
Merced River						
Pohono Bridge, at, Yosemite Merced Falls, blo	Apr-Jul Apr-Jul	360 615	100 95	520 9 4 5	200 315	360* 6 4 5
Tuolumne River						
Hetch Hetchy, nr La Grange, nr	Apr-Jul Apr-Jul	600 1210	101 98	810 1680	390 735	596* 1230
MF Stanislaus River Beardsley Dam, blo	Apr-Jul	305	95	450	158	320*
Stanislaus River Goodwin Dam, blo, Knights Ferry	Apr-Jul	660	95	990	320	695
NF Mokelumne River West Point	Apr-Jul	415	100	620	210	416*
Mokelumne River Mokelumne Hill	Apr-Jul	460	100	670	250	460
Cosumnes River Michigan Bar	Apr-Jul	125	102	245	65	123

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San Joaquin Basin

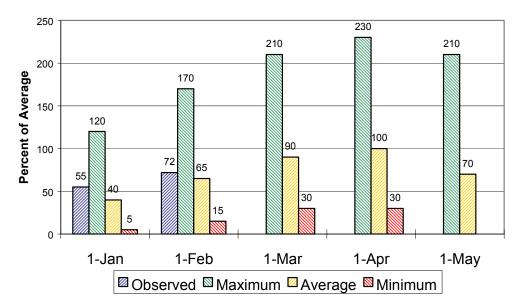
Seasonal Basin Precipitation

October 1 to Date



Seasonal Basin Snowpack

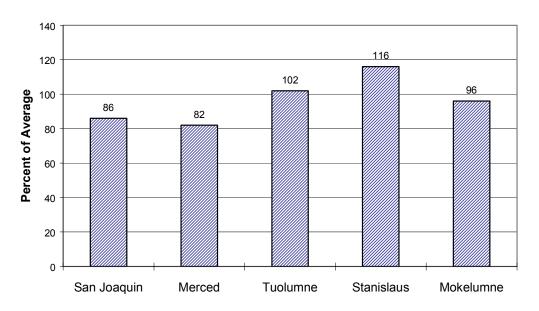
Water Content in % of April 1 Average



San Joaquin Basin

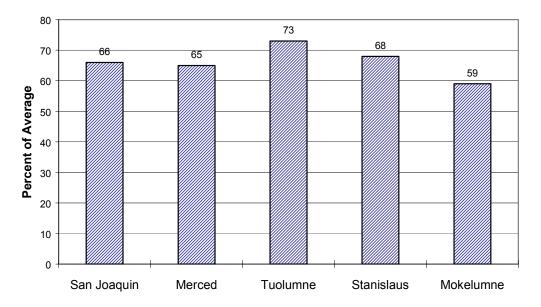
Basin Reservoir Storage

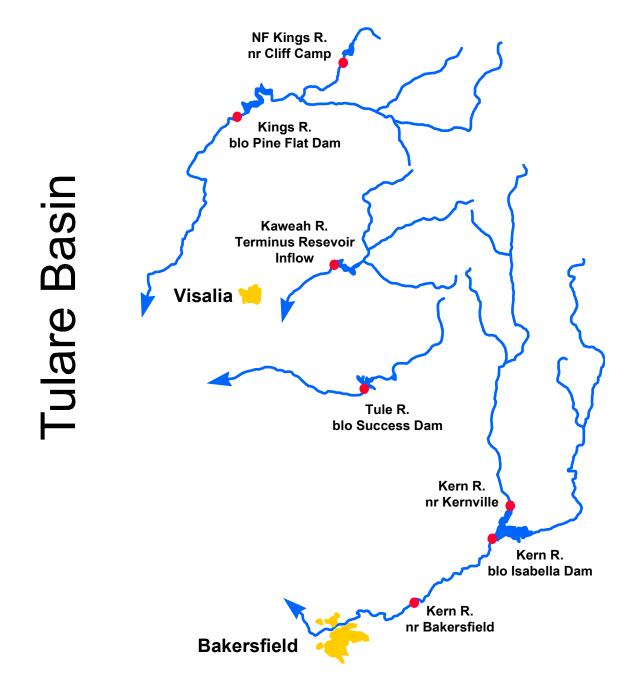
Contents of Major Reservoirs in % of Average



Season Basin Runoff

October 1 to Date





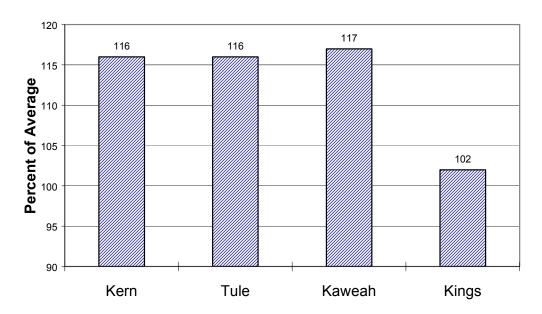
		Most Prob Vol KAF	Most Prob Vol %Nrml	Reas Max Vol KAF	Reas Min Vol KAF	30 Year Avg KAF
Kern River						
Kernville, nr	Apr-Jul	325	82	515	136	398*
Isabella Dam, blo	Apr-Jul	385	80	650	118	480
Bakersfield, nr	Apr-Jul	400	82	685	200	490
Tule River						
Success Dam	Apr-Jul	57	86	104	25	66
Kaweah River						
Terminus Dam	Apr-Jul	265	91	410	130	290
NF Kings River						
Cliff Camp, nr	Apr-Jul	230	96	345	115	240*
Kings River						
Pine Flat Dam, blo	Apr-Jul	1200	96	1740	660	1250

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Tulare Lake Basin

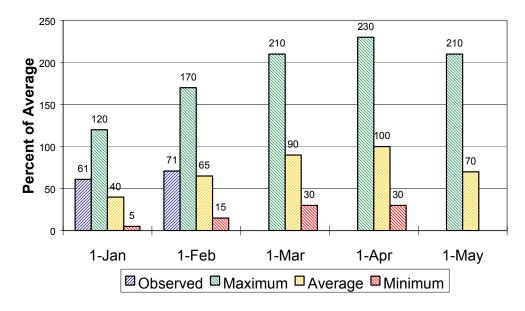
Seasonal Precipitation

October 1 to Date



Seasonal Basin Snowpack

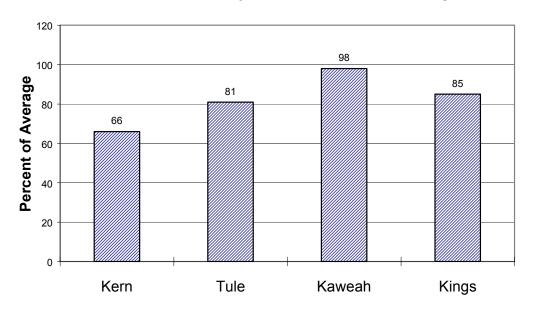
Water Content in % of April 1 Average



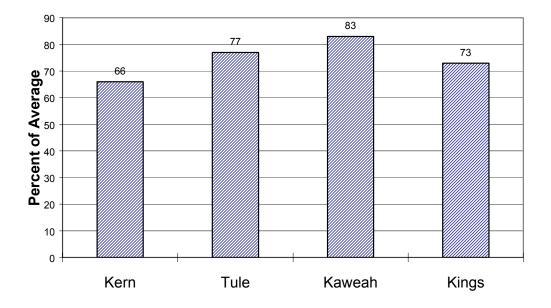
Tulare Lake Basin

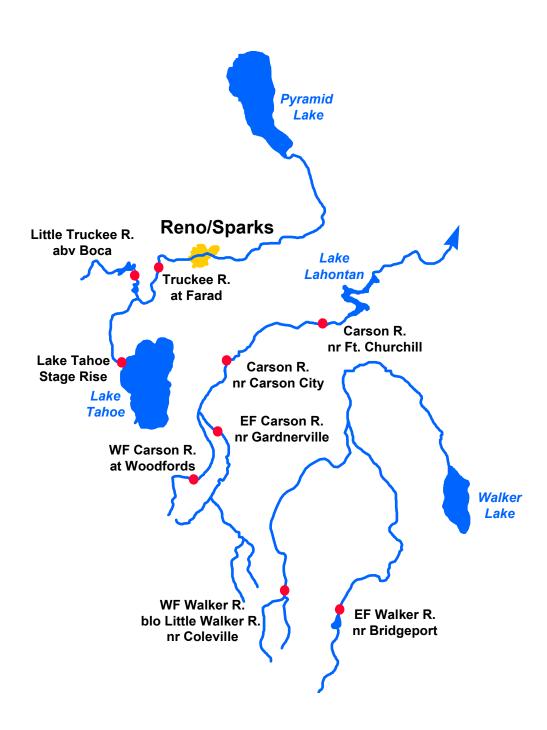
Basin Reservoir Storage

Contents of Major Reservoirs in % of Average



Seasonal Basin Runoff October 1 to Date



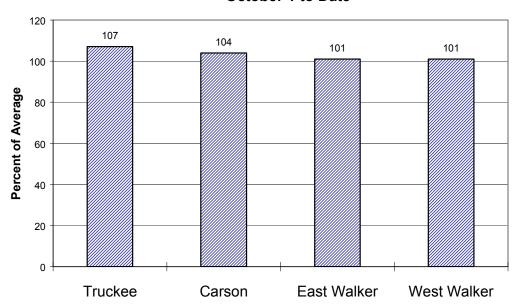


		Most Prob Vol KAF	Most Prob Vol %Nrml	Reas Max Vol KAF	Reas Min Vol KAF	30 Year Avg KAF
Truckee River						
Truckee River Lake Tahoe Stage Rise Farad	Apr-High Apr-Jul	1.3 270	9 4 90	2.0 400	0.6 141	1.4 300
Carson River						
EF Carson River Gardnerville, nr	Apr-Jul	165	87	240	88	189
WF Carson River Woodfords	Apr-Jul	50	89	73	27	56
Carson River Carson City, nr Fort Churchill, nr	Apr-Jul Apr-Jul	162 152	86 85	270 260	55 43	188 178
Walker River						
East Walker River Bridgeport, nr	Apr-Aug	58	87	100	15.5	67
West Walker River Ltl Walker, blo, Coleville	Apr-Jul	147	94	220	62	156

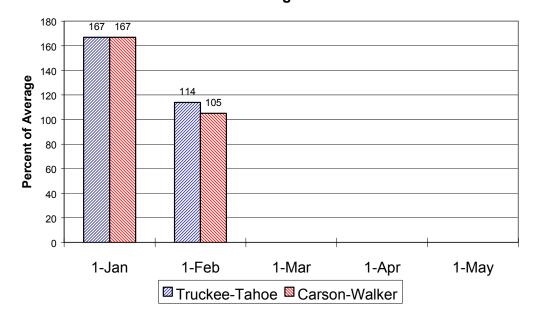
East Side Sierra Nevada Basins

Seasonal Basin Precipitation

October 1 to Date



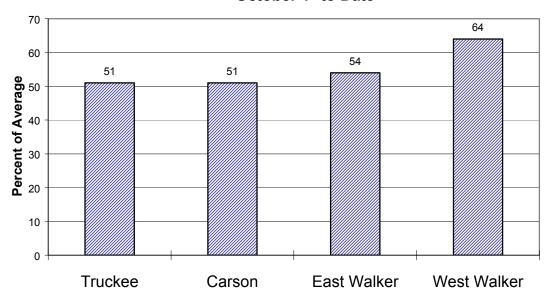
Basin Snowpack % of Average SWE to Date



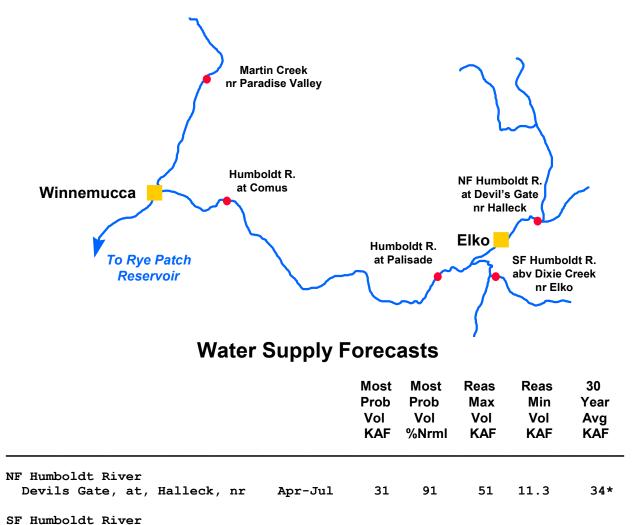
East Side Sierra Nevada Basins

Seasonal Basin Runoff

October 1 to Date



Humboldt River Basin



into this report when the complete data sets become available.

Apr-Jul

Apr-Jul

Apr-Jul

Apr-Jul

68

220

185

19

89

88

82

102

Dixie Ck, abv, Elko, nr

Paradise Valley, nr

Humboldt River Palisade

Comus

Martin Ck

100

385

350

29

76

250

225

18.7

36

57

50

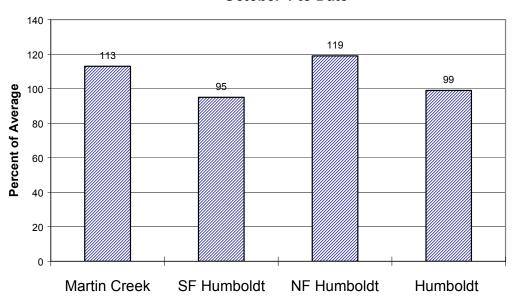
9.5

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Humboldt River Basin

Seasonal Basin Precipitation

October 1 to Date



Basin Snowpack % of Average SWE to Date

